

SHA3112-SF2S(XX) Dual concealed bumper mount antenna, 20-40 MHz B.W., 430-470 MHz

- Completely hidden-does not need any existing vehicle antennas
- 20 to 40 MHz bandwidth depending on the vehicle
- Easy installation and tuning for optimum performance and durability in a wide variety of vehicles
- Dual antenna for enhanced omni coverage

Sinclair's patented concealed bumper mount antennas SHA311 series are designed for law-enforcement vehicles. The antennas are hidden inside the bumper and weatherproofed. The bumper covers must be plastic. Featuring a unique modular design that integrates all the components into a compact waterproof housing making it possible to install the antenna with minor modifications to the bumper. These antennas are mounted with simplicity and ease beneath the bumper cover thereby totally concealing the antenna from sight. A fine-tuning adjustment permits performance optimization during installation.

Attention: The antenna must be installed properly following the installation instruction. For some unique vehicles, please contact Sinclair sales representative or CSR for custom designs to achieve the optimum performance. Dual antennas (one in the front bumper and one in the rear) can be used for better Omni coverage. The antenna must be installed and weatherproofed properly following the installation instruction. The phasing harness and the joints to the two SHA311 antennas are not weatherproofed, so they must be placed inside the vehicle.

SHA3112 dual antenna (one in the front and one in the rear, each integrated with 24 feet RG58 feed cable) can be used for better omni coverage. A phasing harness is supplied with two separate SHA311 antennas.

See below chart for ordering information:

Model Name	Connector
SHA3112-SF2SNM	N-male, loose
SHA3112-SF2SUM	UHF-male, loose
SHA3112-SF2SQM	QMA-male, pre-installed

Note: the connector is provided loose for ease of cable running inside the vehicle and will need to be crimped on by the customer unless otherwise specified (see chart above). Other connectors and cable configuration options are available. Contact your Sinclair Sales Representative or Customer Service Representative for details.

Application Notes

- Bandwidth is dependent upon the type of vehicle and mounting position.



Region	United States	Europe, Middle East, and Africa	Canada, Caribbean, and Latin America	Asia-Pacific
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Electrical Specifications

Frequency Range	MHz	430 to 470	
Bandwidth (Min-Max)	MHz	20 to 40	*1
Connector		Various options avail.	*2
Gain (nominal)	dBd (dBi)	unity (2.1)	
Input VSWR (max)		2:1	
Polarization		vertical	
Impedance	Ω	50	
Pattern		Omni- directional	
Average Input Power (max)	W	300	

Notes

- *1 : Depending on vehicle
- *2 : See previous page for detail.
- *3 : Maximum
- *4 : included

Mechanical Specifications

Width	in (mm)	3 (76)	
Depth	in (mm)	2 (51)	
Length/ Height	in (mm)	19.5 (495)	*3
Mounting Hardware (Universal mount)		#8-32 screws (4)	*4
Shipping dimensions	in (mm)	9x14x5 (229x356x127)	

Ordering Information

Clips are supplied to temporarily secure the radiator to the bumper. VA250 glue should be used for added support (may be ordered separately Sinclair part number 6500295).

Environmental Specifications

Temperature range	°F (°C)	-40 to +140 (-40 to +60)
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